BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 1500000.00

Name of Work: Detailed Estimate for the work of Providing Asphalting to 8th B cross roads in ward No-04.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No 2.3)	cum							
	Desilting of Existing drains								
	8th B cross roads		2	410.00	0.60	0.50	246.00		
	5th B main roads		2	220.00	0.60	0.40	105.60		
	10th B cross road		2	220.00	0.60	0.40	105.60		
							457.20	200.34	91595.00
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	**200.34**							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum							
			Vide Item No. 1				457.20	85.65	39158.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.50 X 4	12.80							
		80.80							
	Area Weightage @ 6%	4.85							
	Total	**85.65**							

No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	**Cleaning the existing black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and /or compressed air to recieve bituminous treatment including cost of all materials, labour, HOM of machineries complete as per Specifications. (P.No.157 & I.No.21.2)	Sqm							
	5th B main road		1	220.00	6.50		1430.00		
	10th B cross road		1	220.00	6.50		1430.00		
							2860.00	3.18	**9095.00**
	Basic Rate	3.00							
	Area Weightage @ 6%	0.18							
	Total	**3.18**							
4	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)	Cum							
	either side of the road edge 5th B main road		2	220.00	1.00	0.15	66.00		
	10th B cross road BWSSB road cut portion		1	220.00	1.00	0.15	33.00		
	road edge		1	220.00	1.00	0.15	33.00		
							132.00	1768.08	**233387.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
5	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)	cum							
			2	220.00	1.00		440.00		
			2	220.00	1.00		440.00		
							880.00	27.56	**24253.00**
	Basic Rate	26.00							
	Area Weightage @ 6%	1.56							
	Total	**27.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)	Cum							
			1	220.00	6.50	0.050	71.50		
			1	220.00	6.50	0.050	71.50		
							143.00		
	consider 25% of camber correction						28.00		
							28.00	6435.26	**180187.00**
	Basic Rate	6071.00							
	Area Weightage @ 6%	364.26							
	Total	**6435.26**							
7	KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)	sqm							
			1	220.00	6.50		1430.00		
			1	220.00	6.50		1430.00		
							2860.00	14.84	**42442.00**
	Basic Rate	14.00							
	Area Weightage @ 6%	0.84							
	Total	**14.84**							

Sl No	Description of item	Unit	No			D	Qty	Rate	Amount
8	KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)	Cum							
			1	220.00	6.50	0.040	57.20		
			1	220.00	6.50	0.040	57.20		
							114.40	7270.54	**831750.00**
	Basic Rate	6859.00							
	Area Weightage @ 6%	411.54							
	Total	**7270.54**							
9	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, No. 1974 (P.No.185 & I.No.24.15)	Sqm							
			2	220.00	0.10		44.00		
			2	220.00	0.10		44.00		
							88.00	542.72	**47759.00**
	Basic Rate	512.00							
	Area Weightage @ 6%	30.72							
	Total	**542.72**							
10	Miscellaneous charges								
								Total	1500000.00

(Rupees Fifteen Lakhs Only)

TECHNICALLY SANCTIONED FOR Rs. 15.00 lacs
Rupees Fifteen Lacs Only
Under 60(4)-P-1741-2016-17
Registered as CE ( ) No. 9
Subject to conditions contained in enclosed memo EE ( ) No. /91
Dt. Technically Sanctioned
EE/TC/94/16-17 No.
Dated 16-2-2017 Rs. 15.00 lacs
Executive Engineer

Administrative Approval
Accorded For ..... 15.00 lakhs.
Head of A/C ..... P.1721.
CER NO : 202 Dt: 16/02/17

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

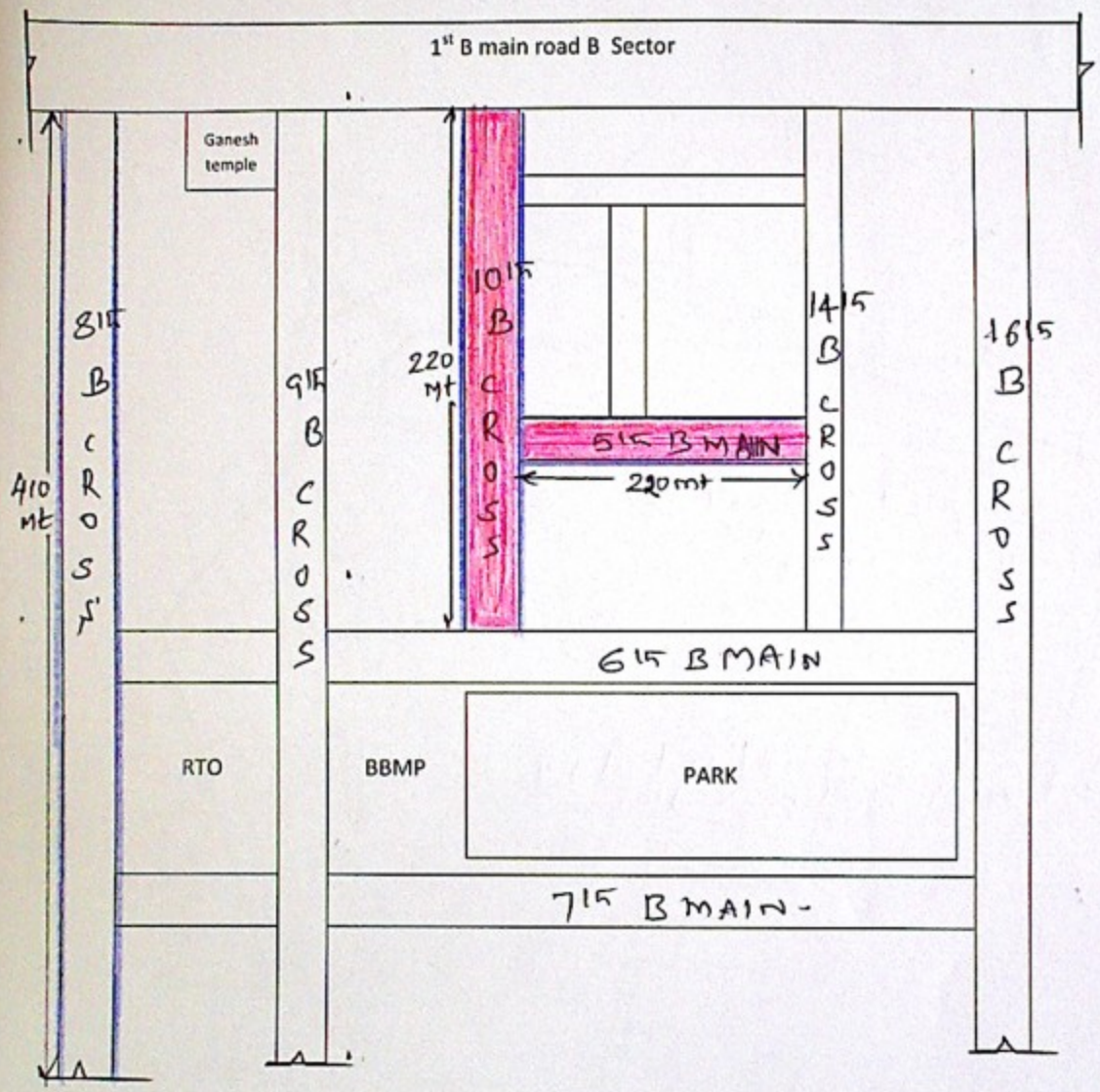
Ramesh AR
Assistant Engineer

Executive Engineer
Yelahanka Division
Bangalore-64

Assistant Executive Engineer
Yelahanka Satellite town Sub Division
Bangalore-64

TA **CE (YNK)**

PROVIDING ASPHALTING TO 8TH B CROSS ROAD IN WARD NO. 04.



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PROPOSED - ASPHALT ROAD
DESILTING OF DRAINS.

A.E. Ramanjaneiah

A.E.E